PART 1, FEBRUARY 1992

Beneficial effects of endotoxin treatment on metabolism in tumour-bearing rats
A. M. Rofe, C. S. Bourgeois and P. Coyle 1

Frequency of D8/17 B lymphocyte alloantigen in North Indian patients with rheumatic heart disease
N. K. Ganguly, I. S. Anand, M. Koicna, S. Jindal and P. L. Wahi 9

Increased release of interleukin-1 and tumour necrosis factor by interleukin-2-induced lymphokine-activated killer cells in the presence of cisplatin and FK-565
S. Basu and A. Sodhi 15

Effect of sodium stibogluconate and pentamidine on *in vitro* multiplication of *Leishmania donovani* in peritoneal macrophages from infected and drug-treated BALB/c mice
S. Sodhi, S. Kaur, R. C. Mahajan, N. K. Ganguly and N. Malla 25

Lymphoid tissue in rat oral mucosa: Structure and function
T. Sminia, S. J. Swart, J. J. E. Steenbergen and J. Biewenga 33

Enhanced H_2O_2 release from immune chicken leucocytes following infection with *Eimeria tenella*
S. J. Prowse, W. P. Michalski and K. J. Fahey 41

Proceedings from the 4th Frank and Bobbie Fenner Conference in Medical Research

A transgenic window on peripheral T cell tolerance
J. F. A. P. Miller 49

Quantitative analysis of lymphokine expression *in vivo* and *in vitro*
A. B. Troutt, E. Meraskovsky, I. A. Rogers, M. A. Pech and A. Kelso 51

Viral escape from immune recognition: Multiple strategies of adenoviruses
A. Müllbacher 59

Down-regulation of E1a expression of E3 gene products in group C adenoviruses
X. Zhang, A. J. D. Bellett, A. Müllbacher and A. W. Braithwaite 65

Relocation of antigens to the cell surface membrane can enhance immune stimulation and protection
G. W. Both, M. E. Andrew, D. B. Boyle, B. E. H. Coupar and A. R. Bellamy 73

PART 2, APRIL 1992

Expression of the high responder/non-responder human FcγRII. Analysis by PCR and transfection into FcR$^-$ COS cells
B. J. Tate, E. Witort, I. F. C. McKenzie and P. M. Hogarth 79

Pattern of the action of a suppressor factor produced by a human macrophage-like cell line, U937
K. Ohnishi, H. Fujiwara, I. Tsuyuguchi and S. Kishimoto 89

Effects of PMA, cytokines and dexamethasone on the expression of cell surface Fc receptors and mRNA in U937 cells
L. P. Grattage, I. F. C. McKenzie and P. M. Hogarth 97

Brief Communication

A role for tumour necrosis factor-α in the human mixed lymphocyte culture reaction
S. J. Matthews and J. S. Sullivan 107

Proceedings from the 4th Frank and Bobbie Fenner Conference in Medical Research

Alistair Cunningham and the generation of antibody diversity after antigen
E. J. Steele 111

The dynamics of T cell-dependent B cell responses *in vivo*
M. G. McHeyzer-Williams, M. J. McLean, G. J. V. Nossal and P. A. Lalor 119

Defining the nucleic acid substrate for somatic hypermutation
E. J. Steele, H. S. Rothenfluh and G. W. Both 129

In situ studies of the antigen-driven somatic hypermutation of immunoglobulin genes
J. Jacob, C. Miller and G. Kelsoe 145

The mechanism of T and B cell collaboration
P. D. Hodgkin and M. R. Kehry 153

PART 3, JUNE 1992

Autoimmunity: Paradigms of Burnet and complexities of today
I. R. Mackay 159

Evaluation of thrombus detection in a rabbit model using a technetium-99M-labelled anti-fibrin monoclonal antibody
F-T. Lee, L. J. Milner, G. R. Boniface, G. J. Bautovich, A. R. J. Weedon, P. G. Bundeson, D. B. Rylatt and K. Z. Walker 173

Western blot analysis of antibody responses to influenza virion proteins
D. Qiu, G. A. Tannock, R. D. Barry and D. C. Jackson 181

Theoretical article

The diversity of retroviral diseases of the immune system
H. C. O'Neill 193

Proceedings from the 4th Frank and Bobbie Fenner Conference in Medical Research

Antigenic diversity and variation in blood stages of *Plasmodium falciparum*
D. J. Kemp 201

The structural basis of antigenic variation: Studies of influenza virus neuraminidase
P. M. Colman 209

Diversity and variation in human immunodeficiency virus: Implications for immune control
A. J. Ramsay 215

Book Reviews 223

Proceedings of the Australasian Society for Experimental Pathology, 1992 S1

PART 4, AUGUST 1992

Retention of tissue-specific phenotype in a panel of colon carcinoma cell lines: Relationship to clinical correlates
R. H. Whitehead, H. H. Zhang and I. P. Hayward 227

Differential eicosanoid synthesis by murine fetal thymic non-lymphoid cells
K. J. Pendino, K. P. Chepenik and R. R. Schmidt 237

T cell receptor α-chain polymorphic allele frequencies in Caucasians and Polynesians
A. Geursen, A. Couper, W. G. H. Abbott and L. M. Cairns 253

Restimulated memory Tc cells have a higher apparent avidity of interaction with targets than primary virus-immune Tc cells as indicated by anti-CD8 blocking
A. B. Hill, R. V. Blanden, C. R. Parrish and A. Müllbacher 259

Parasite-induced changes to localized erythrocyte membrane deformability in *Plasmodium falciparum* cultures
K. M. Naumann, G. L. Jones, A. Saul and R. Smith 267

Limiting dilution analysis in leprosy
R. J. Mullins, P. Roche, E. Adams, P. Jones, S. Chen, W. Theuvenet and W. Basten 277

Book Reviews 291

PART 5, OCTOBER 1992

Antibodies to 65 kDa and 70 kDa heat shock proteins in rheumatoid arthritis and systemic lupus erythematosus
J. Panchapakesam, M. Daglis and P. Gatenby 295

Local immunity in the male reproductive tract
V. L. Clifton, A. J. Husband and D. J. Kay 301

In vitro metabolic inhibition of the human lymphocyte: Influence on the expression of interleukin-2 receptors
H. Karlsson and L. Nässberger 309

Proliferation of the BCL1 B cell lymphoma induced by IL-4 and IL-5 is dependent on IL-6 and GM-CSF
K. Ni and H. C. O'Neill 315

Intradermal and percutaneous transudation of IgG_1 and transferrin in sheep
I. G. Colditz, K. G. Altmann and D. L. Watson 323

T lymphocyte responses of sheep to bovine leukaemia virus infection
W. H. Ward, C. K. Dimmock and F. W. Eaves 329

Theoretical articles

T cell memory: A role for MHC class II molecules on T cells?
H. Zola 337

An hypothesis to explain why cell-mediated immunity alone can contain infections by certain intracellular parasites and how immune class regulation of the response against such parasites can be subverted
P. A. Bretscher 343

Brief Communications

Conservation of repeating structures in the PfEMP2/MESA protein of *Plasmodium falciparum*
A. Saul, F. Yeganeh and R. J. Howard 353

Cloning and characterization of a novel multicopy, repetitive sequence of *Plasmodium falciparum*, REP51
A. Saul, F. Yeganeh and R. J. Howard 357

Book Reviews 361

PART 6, DECEMBER 1992

Review

Value issues in biomedical science: Public concerns and professional complacency
A. J. D. Bellett 363

Research articles

Inhibition of adjuvant arthritis in the rat by phosphosugars and the α-glucosidase inhibitor castanospermine
D. O. Willenborg, C. R. Parish and W. B. Cowden 369

Generation and cytotoxic profile of human peripheral blood $CD4^+$ T lymphocytes
M. J. Smyth 379

Serological responses and immunity produce in salmonids by vaccination with Australian strains of *Vibrio anguillarum*
B. L. Munday, J. Carson, R. Whittington and J. Alexander 391

Theoretical articles

What is the selective pressure that maintains the gene loci encoding the antigen receptors of T and B cells? A hypothesis
R. E. Langman and M. Cohn 397

The importance of T cell homing and the spleen in reaching a balance between malaria immunity and immunopathology: The moulding of immunity by early exposure to cross-reactive organisms
M. F. Good and J. Currier 405

Brief Communications

Development of human ABO blood group A antigen on *Escherichia coli* Y1089 and Y1090
N. Yang and B. Boettcher 411

Macrophages in protective immunity to *Hymenolepis nana* in mice
K. Asano, K. Muramatsu, A. Ito and K. Okamoto 417

Book Reviews 421

Author Index to Volume 70 427

Subject Index to Volume 70 431